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To: Distribution
From: W. E. Sterling *WES*
Subject: Equilibration OV Study with Chemical Analysis

Date: January 30, 1995

An additional equilibration OV study with chemical analysis is scheduled for the week of 2/6/95. We are running this test to determine what chemical changes occur (if any) to the equilibrated sample after being removed from the conditioning plenum and allowed to remain in the tray for extended periods in a static conditioning state until the sample is smoked. For the equilibration period examined, GC Water, PG, and Glycerin will be analyzed.

The test protocol for the new trials are as follows:

- 1 Brand
Marlboro KS (0290) ordered from MC
- 3 Locations
Sample Prep Plenum (either Domestic or International)
Sample Prep Static (trays stacked on table)
Control (sealed plastic container)
- 5 Equilibration times
0 hr (as received from packs) 96-hr
48-hr 168-hr
72-hr
- 2 Determinations from each sample

One technician from each of the participating lab areas will be assigned to handle the entire test.

Marlboro KS cigarettes have been received from the MC. On Monday, February 6, the designated technician will open three cartons of Marlboro. Ten plenum trays will be randomly loaded with 50 cigarettes each. Bar codes will be available to label the trays:

MarlSPP48	MarlSPS72	MarlCNTL72
MarlSPP72	MarlSPS96	MarlCNTL96
MarlSPP96	MarlSPS168	MarlCNTL168
MarlSPP168		

where SPP = Sample Prep Plenum, SPS = Sample Prep Static, and CNTL = Control, (duplicate label to sealed plastic container). These trays will be loaded into adjacent cubicles near the center of the plenum..

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Thirty (30) of the remaining cigarettes will be ripped, the tobacco jarred, and delivered to the GC Lab for the "as-received" determinations of Water, PG, and Glycerin. This is the Marlboro zero time value. Samples for the remaining tests will be prepared in a like manner.

Samples will be removed from the plenums and tested by the following schedule:

<u>Equilibration Time</u>	<u>Day/Date</u>
48-hrs	Weds., February 8th
72-hrs	Thurs., February 9th
96-hrs	Fri., February 10th
168-hrs	Mon., February 13th

Samples for the static test and control test will be removed from the conditioning plenum on Wednesday February 8th, at the end of the 48-hr equilibration. Static sample trays will be stacked on the work table near the center of the room to receive additional conditioning. Control samples will be placed in sealed plastic containers to be opened for subsequent testing.

Please call Ed Sterling at ext. 5796 if you have any questions.

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